

The diagram illustrates a Distributed Control System (DCS) architecture. At the top center is a box labeled "Control Room". Inside this box, there are two sub-sections: "HMI / SCADA" and "DCS CPU". A central vertical line represents the communication bus. Various process units are connected to this bus via horizontal lines. On the left side, from top to bottom, the units are: a "Control Valve" and a "Flow Meter" (top pair), and two "Pressure Transmitter" units (bottom pair). On the right side, from top to bottom, the units are: a "Control Valve" and a "Temperature Transmitter" (top pair), a "Flow Meter" (middle), and a "Pressure Transmitter" (bottom). At the very bottom, a "Temperature Transmitter" is connected to the bus via a vertical line. Arrows indicate the direction of data flow: from the process units to the DCS CPU in the Control Room, and from the HMI / SCADA section back to the process units.

FIG. 1  
(PRIOR ART)

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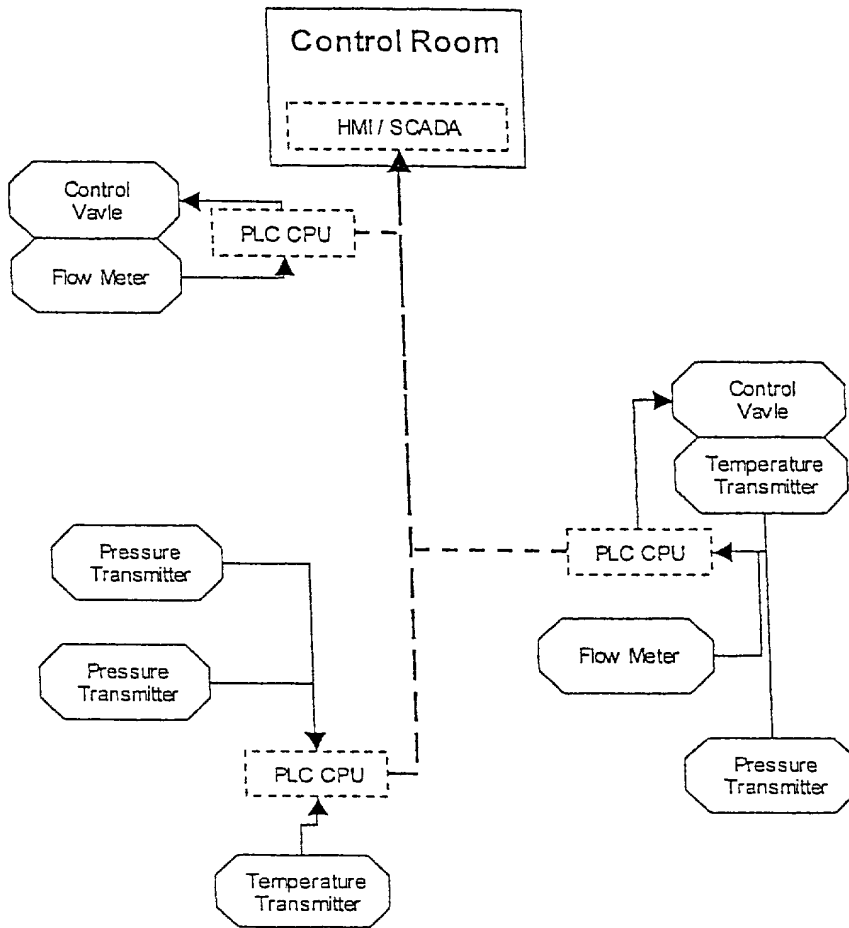


FIG. 2  
(PRIOR ART)

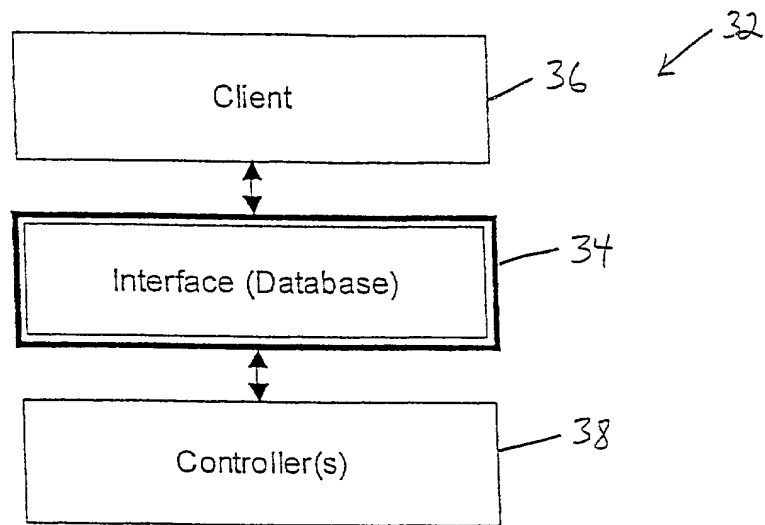


FIG. 3

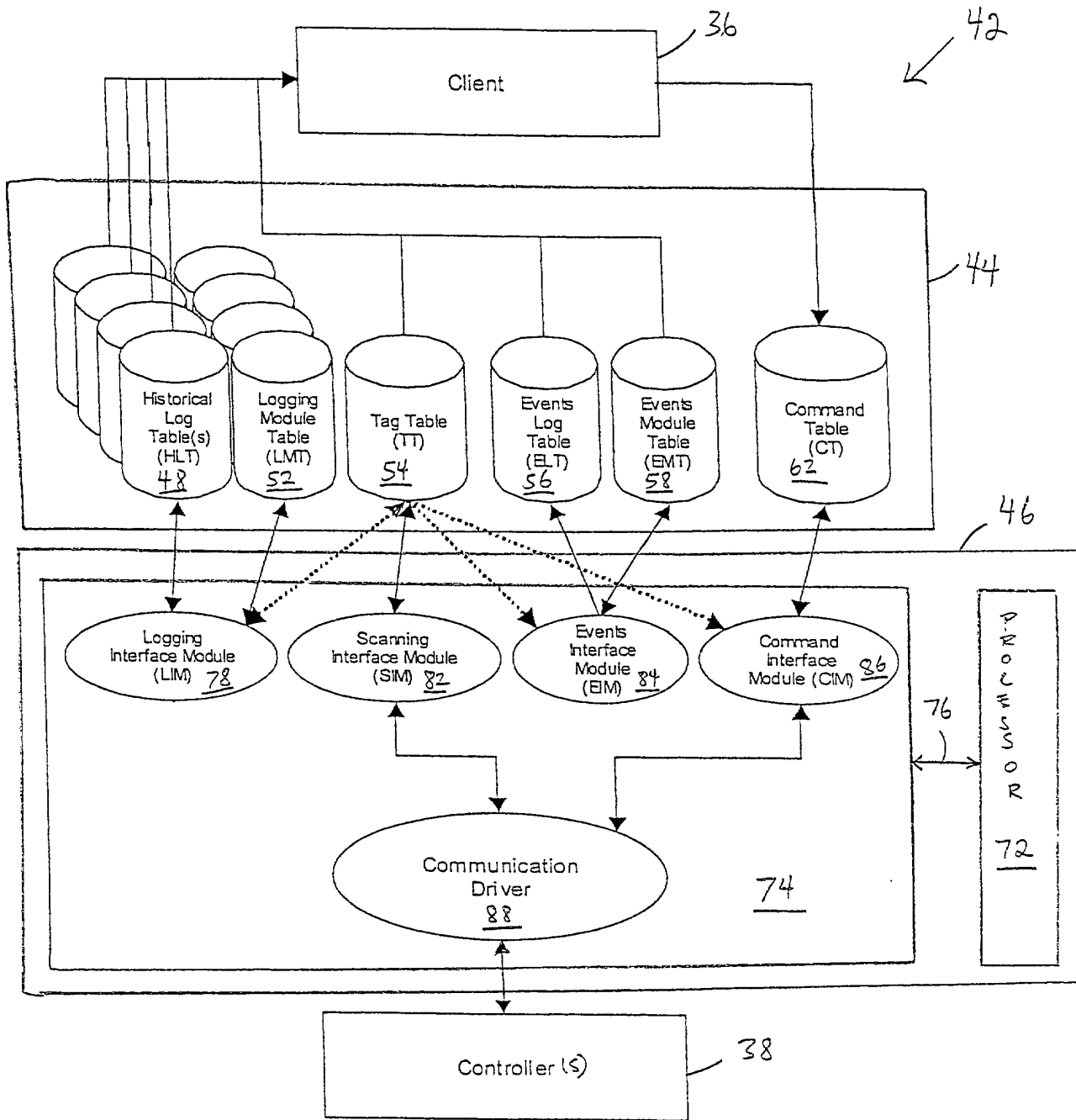


FIG. 4

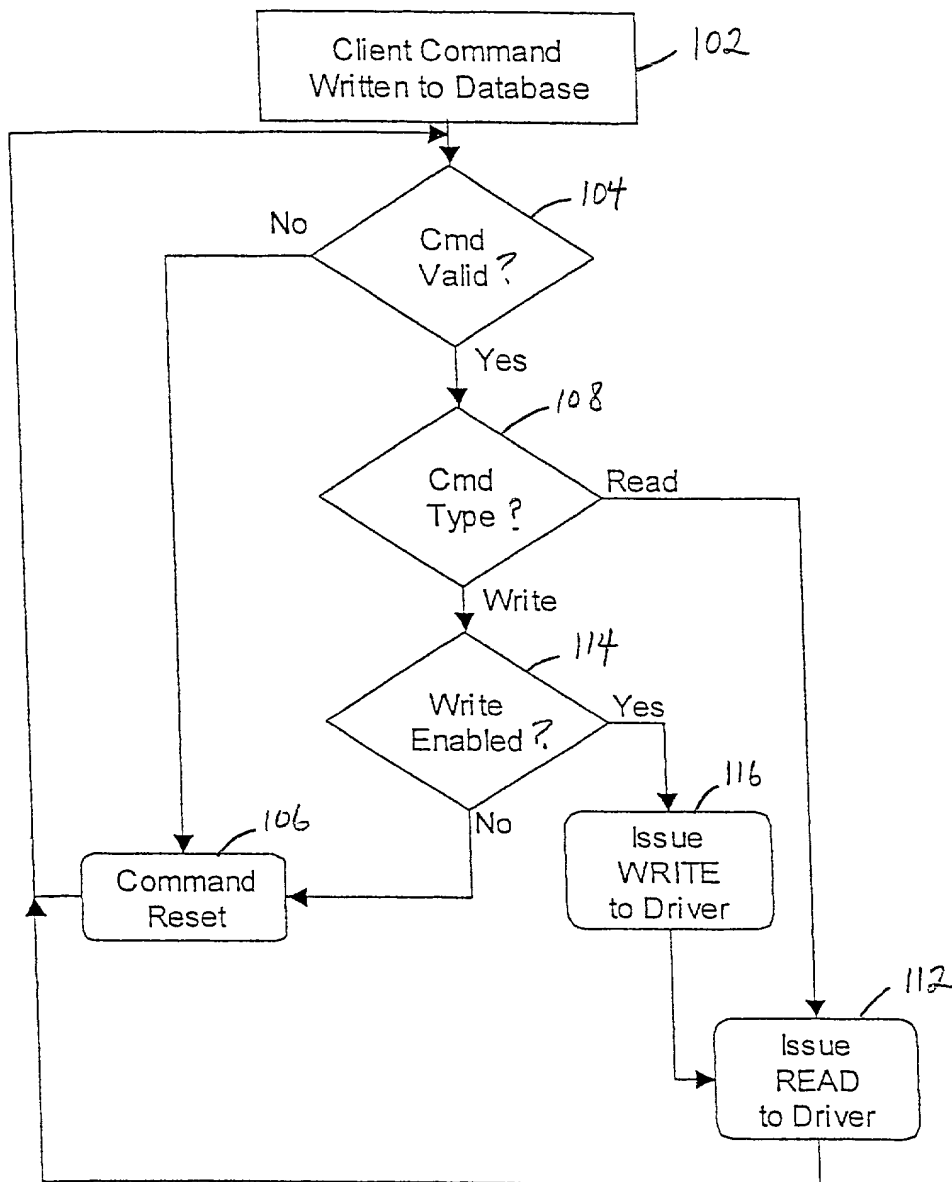
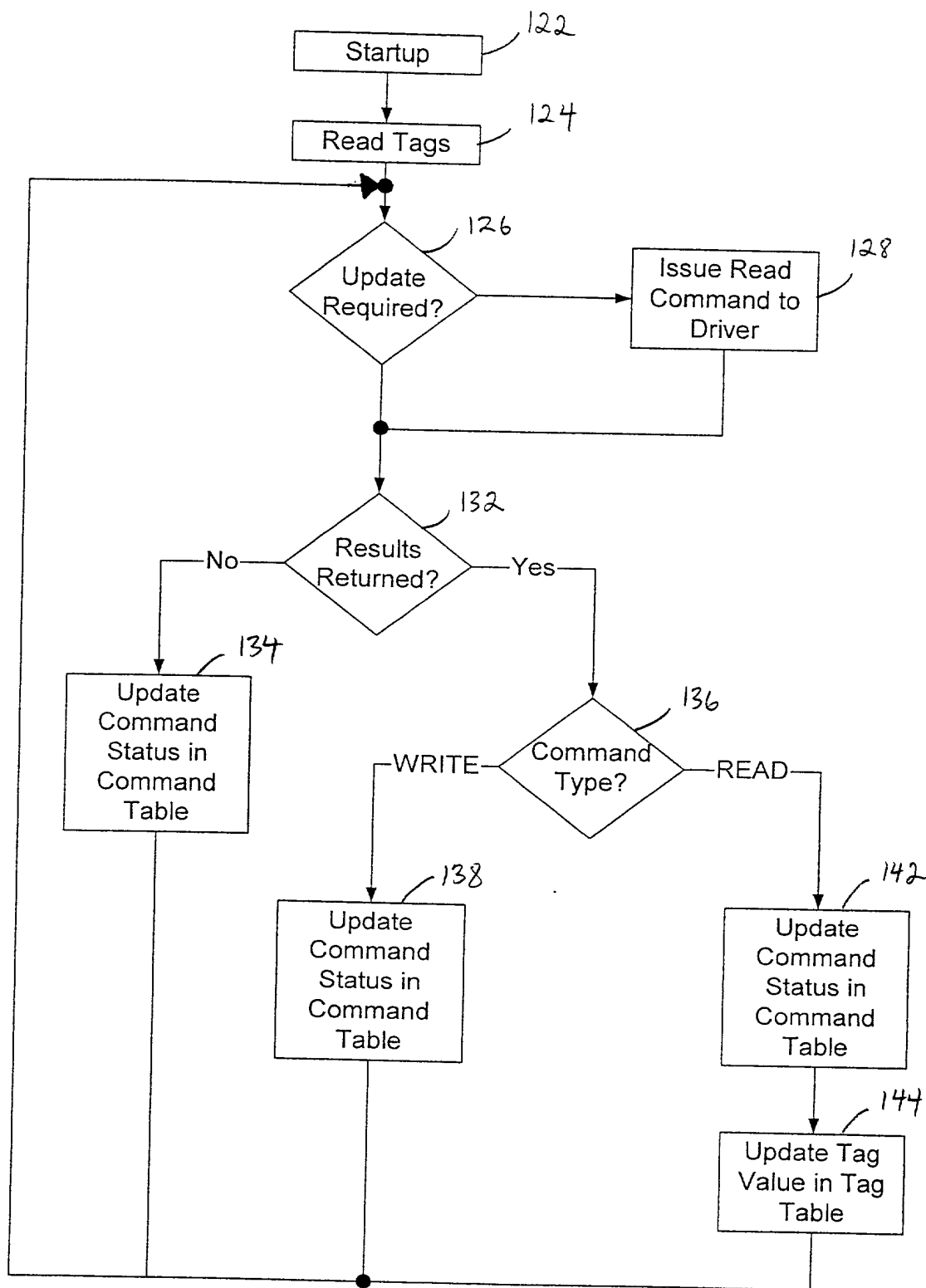


FIG. 5



**FIG. 6**

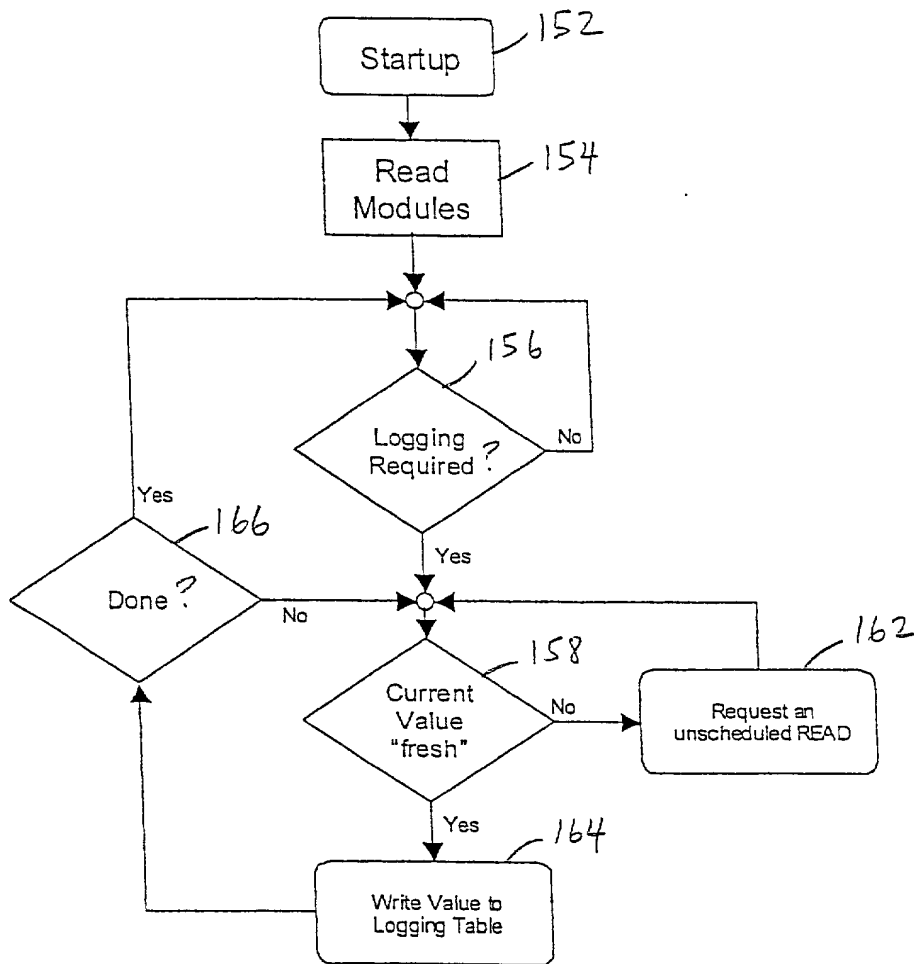


FIG. 7

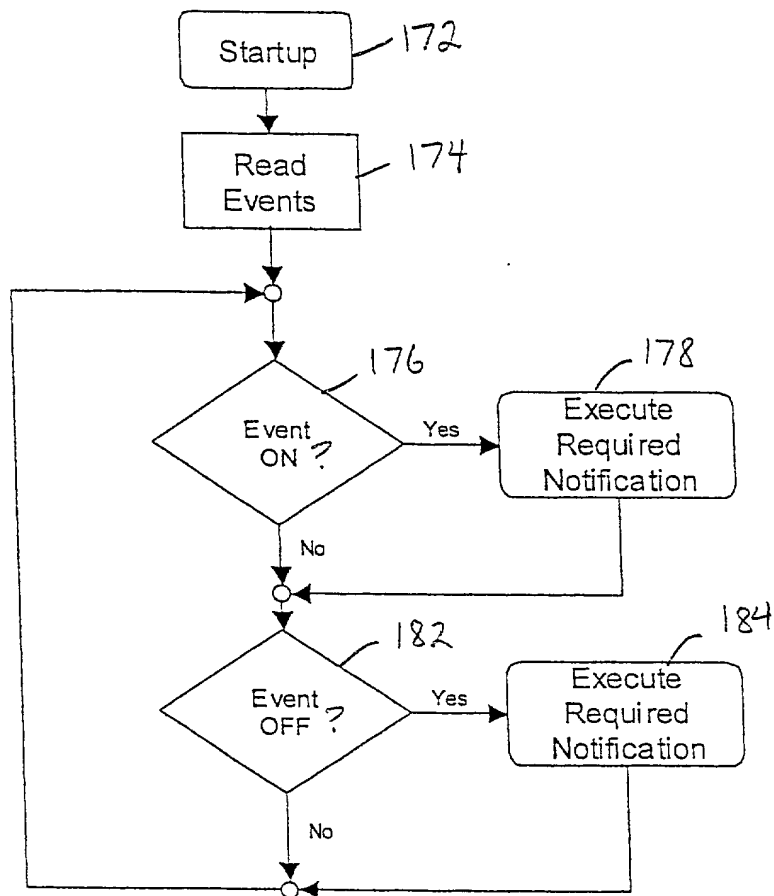


FIG. 8